

I CLAIM:

1. An IC transporting device for IC probe apparatus comprising a vertical unit, a horizontal unit and a suck-and-hold unit, and capable of being set, change by means of a computer program and controlling to-and-fro moving distance of individual motor so as to accurately position the transporting device, wherein
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- (a) the vertical unit includes a main sliding rail of an appropriate distance and a step motor at the front and rear end, and the main sliding rail is mounted with a dove-tail block having a clipping block with an arch-shaped block;
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- (b) the horizontal unit includes an arch-shaped block having a suspension arm being mounted onto an upright board and a flat board, and the perpendicular face of the upright board has a first step motor and a second step motor, and a common sharing sliding rail is provided on the flat board for left-right movement of a first and a second suck-and-hold device driven by the first and the second step motor;
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- (c) the suck-and-hold unit includes a first suck-and-hold device, and the first suck-and-hold device has a L-shaped sliding seat having a dove-tail slot at the bottom thereof and the sliding seat is
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vertically mounted at a belt of the first step motor and the external edge of the sliding seat is mounted with a step motor; and the sliding seat is provided with a L-shaped board to engage with the teeth stripe of the step motor, the rear end of the L-shaped board is provided with a vacuum nozzle so as to suck and retain the chip; the second suck-and-hold device has a L-shaped sliding seat having a dove-tail slot at the bottom thereof, and the vertical section of the sliding seat is mounted at the belt stripe of the second step motor the belt drives the entire sliding seat so that the entire seat swing to left and right at a suspension arm, the external edge of the sliding seat is provided with a step motor and a L-shaped corner board for the engagement with the teeth stripe of the step motor, and the end terminal of the L-shaped corner board is provided with vacuum nozzle to suck the chips.

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